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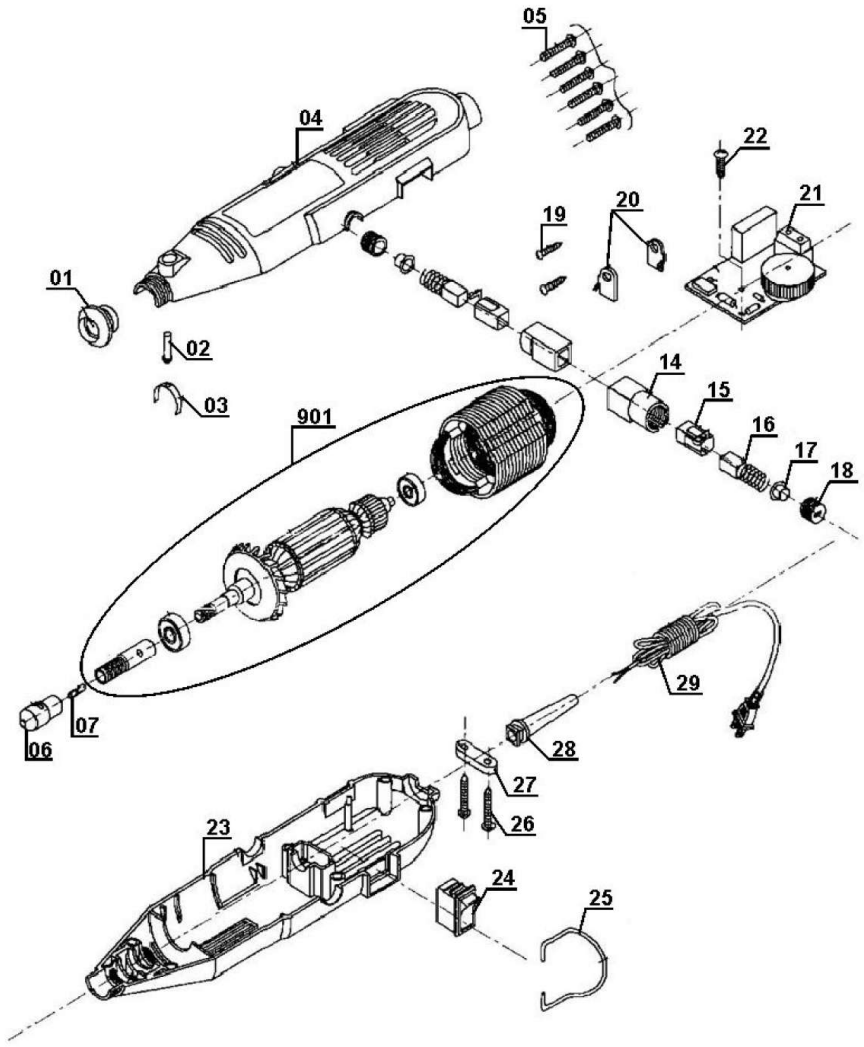
CXMT 135; EX; UK
Grinding and Engraving Tool

Artikel-Nr.: 4419179
Ident-Nr.: 01018



Komponenten / Ersatzteile

Position	Artikel-Nr.	Beschreibung
1	441917001006	nut
2	441917001008	fix pin
5	441917001011	screw 2,9 x 16
16	441917001002	carbon brush (pair)
21	441917001003	electronic
24	441917001	switch DZKA3 6A 250V 5E4
901	441917001004	rotor with stator

challenge xtreme

Operating Instructions Multi Tool

WARNING! PLEASE READ THESE INSTRUCTIONS BEFORE OPERATING THIS UNIT

KEEP THIS MANUAL FOR FUTURE REFERENCE

CE

EH-Art.-No.: 44.191.79 **I.-Nr: 01018** **CXMT 135**

Caution! - Read the operating instructions to reduce the risk of injury

Always wear PPE (Personal Protective Clothing).

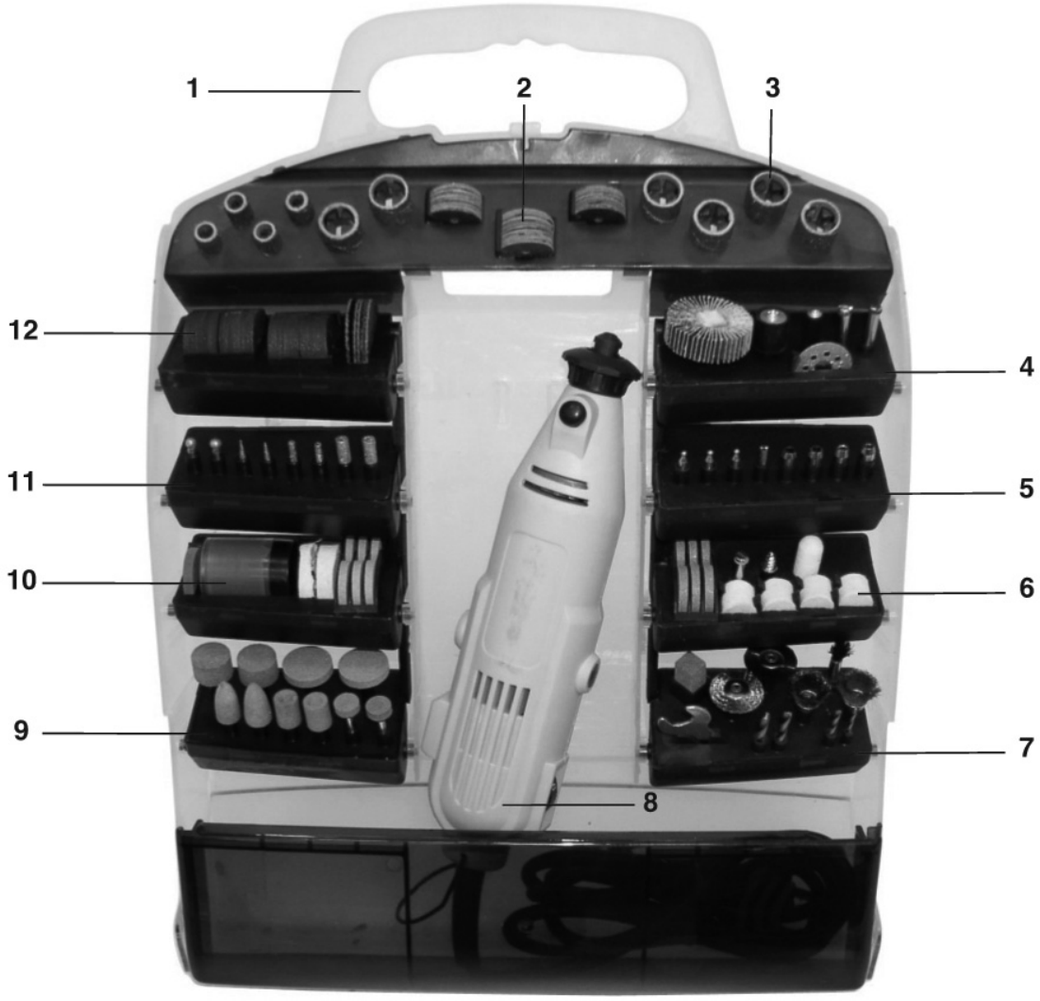
Wear eye protection!

Wear Ear Protection!

Beware of electrical voltage

Read the complete operating manual with due care and keep it in a safe place. If you give the unit to any other person, hand over this operating manual as well!

1



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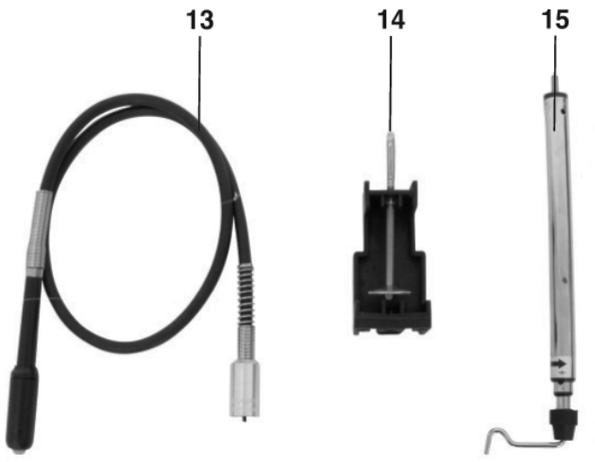

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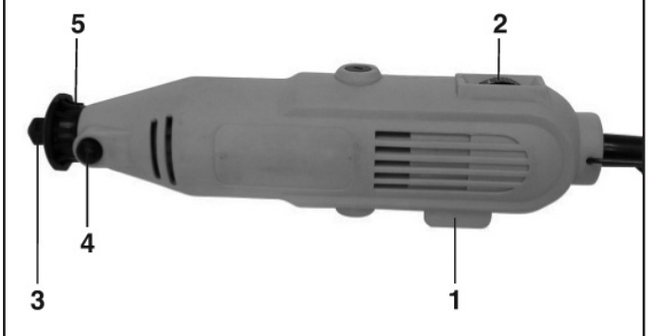

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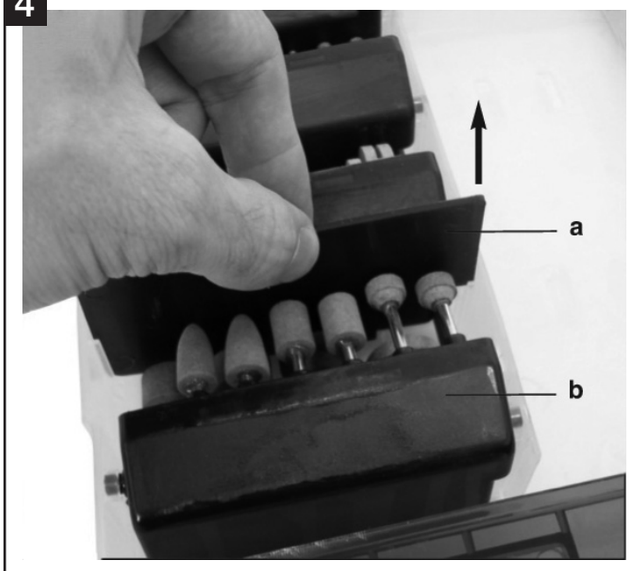

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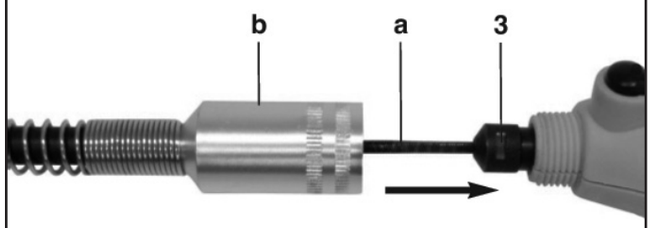

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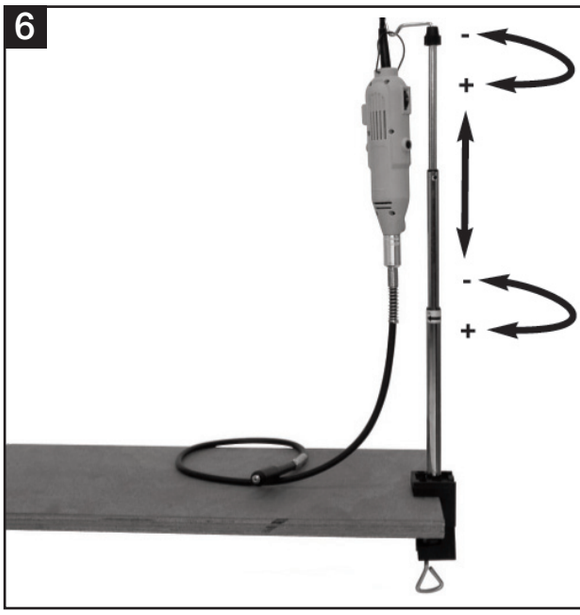

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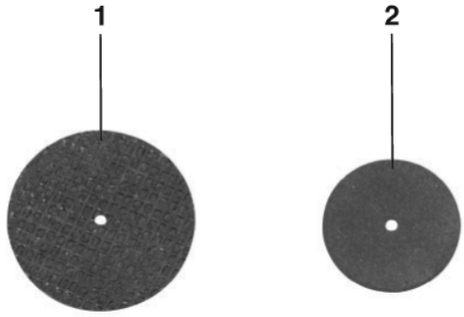

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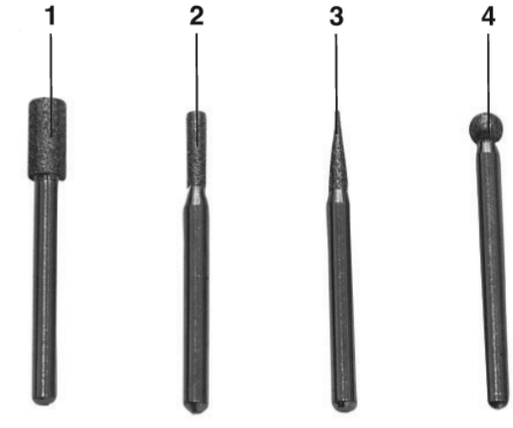

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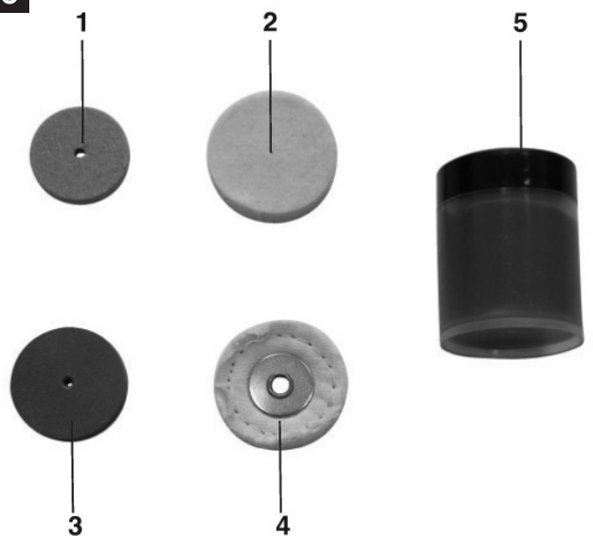

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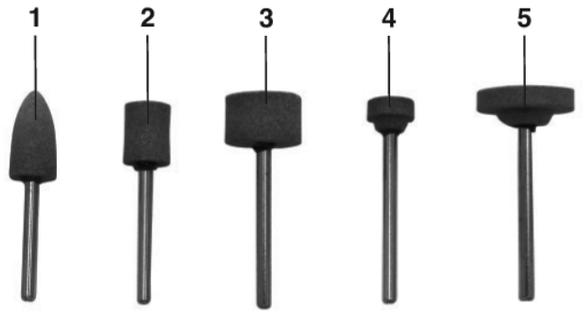

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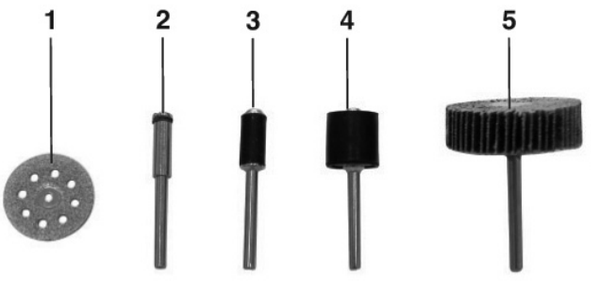

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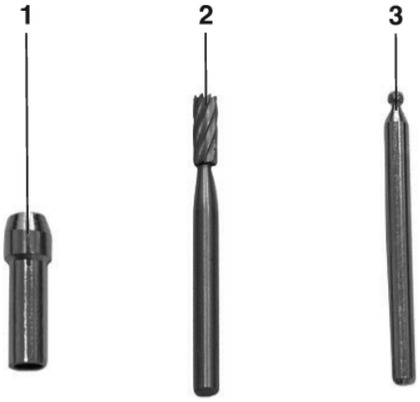

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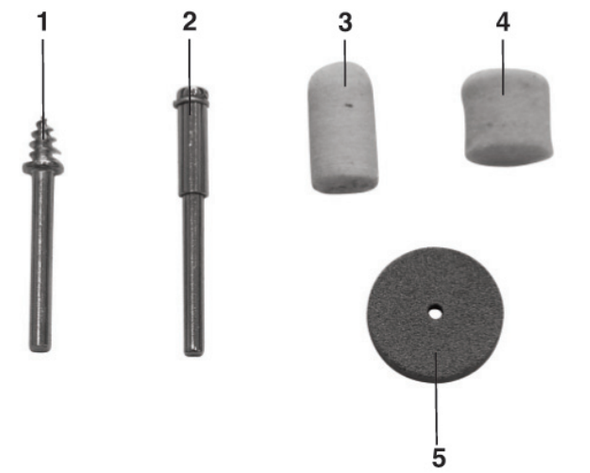

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⚠ Important!

When using the equipment, a few safety precautions must be observed to avoid injuries and damage. Please read the complete operating instructions and safety regulations with due care. Keep this manual in a safe place, so that the information is available at all times. If you give the equipment to any other person, hand over these operating instructions and safety regulations as well. We cannot accept any liability for damage or accidents which arise due to a failure to follow these instructions and the safety instructions.

1. Safety instructions

The corresponding safety information can be found in the enclosed booklet.

⚠ CAUTION!

Read all safety regulations and instructions.
Any errors made in following the safety regulations and instructions may result in an electric shock, fire and/or serious injury.
Keep all safety regulations and instructions in a safe place for future use.

2. Items supplied (Fig. 1/2)

1 Case
2 Grinding wheels
3 Grinding belts
4 Flap wheel/diamond cutting wheel/grinding heads/clamping spindles
5 Cutters/diamond-tipped cutters/sleeves
6 Felt polishers/grinding wheels/arbors
7 Bristle brushes/wire brushes/bits/collet chuck key/whetstone
8 Drive unit
9 Grinding pins
10 Polishing wheels/polishing paste/ grinding wheels
11 Diamond-tipped cutters
12 Cutting-off wheels
13 Flexible shaft
14 Table clamp
15 Telescopic stand rod

3. Layout (Fig. 3)

1 ON/OFF switch
2 Speed controller
3 Collet chuck nut
4 Locking knob for collet chuck
5 Cover

4. Proper use

The Grinding and Engraving Set is designed to perform drilling, grinding, deburring, polishing, engraving, cutting, milling and cleaning jobs on wood, metal and plastic in model-making, workshop and household applications. Use the tool and accessories only for those applications described.

The machine is to be used only for its prescribed purpose. Any other use is deemed to be a case of misuse. The user / operator and not the manufacturer will be liable for any damage or injuries of any kind caused as a result of this.

Please note that our equipment has not been designed for use in commercial, trade or industrial applications. Our warranty will be voided if the machine is used in commercial, trade or industrial businesses or for equivalent purposes.

5. Technical data

Operating voltage of the drive unit:	230V ~ 50 Hz
Power input:	135 W
Idle speed n_0:	10,000 - 35,000 rpm
Clamping range:	3.2 mm
Weight of tool (without packing):	0.61 kg
Sound pressure level L_{pA}:	70.1 dB
Sound power level L_{WA}:	83.1 dB
Vibration a_{hv}:	< 2,5 m/s²
Totally insulated	II / ⧈

6. Before starting the equipment

6.1. Taking out the accessories (Fig. 4)
⚠Before you take out the accessories, you must remove the two transportation braces. To do so, pull each transportation brace (a) out of the guide. Then tilt the accessory holder (b) forwards.

6.2. Inserting the various tools (Fig. 3)
Before inserting a tool (and before each tool change) switch of the drive unit and pull the power plug.
1. Press the locking knob (4) and turn the collet chuck until the bolt locks into place.
2. Undo the collet chuck nut (3).
3. Insert the required tool into the sleeve and tighten the collet chuck nut (3).

6.3. Installing the flexible shaft (Figs. 3/5)
- Unscrew the cover (5) from the front of the equipment.
- Undo the collet chuck nut (3).
- Insert the internal schaft (a) of the flexible shaft into the collet chuck (3).
- Tighten the collet chuck nut (3).
- Now tighten the ring (b) on the multi-tool.

6.4 Using the stand (Fig. 6)
- Fit the stand to a workbench
- The stand is adjustable in height and can be adjusted

as shown in Fig. 6.
- The multi-tool can now be attached to the stand.

7. Using the tool for the first time

- Make sure that the drive unit is switched off.
- Check that the mains voltage specified on the rating plate of the power supply unit is the same as your mains supply. Only then should you insert the plug of the power supply unit into a socket-outlet.

7.1. ON/OFF switch (Fig. 3)
Switch on the drive unit with the power switch (1).

7.2. Speed selector (Fig. 3)
The required speed can be set with the speed control (2). The correct speed depends on the tool used and the type of material being processed.

7.3 Directions for use
- With small milling cutters/grinding pins: Use a high speed.
- With large milling cutters / grinding pins: Use a low speed.
- Precision work / engraving: Hold the drive unit like a pen.
- Rough work: Hold the drive unit like a hammer.

7.4 Tips
- Exert only moderate pressure on the workpiece and allow it to be processed at uniform speed.
- You will not finish your work sooner by exerting heavy pressure. On the contrary, heavy pressure will cause the drive unit to slow down or stop and will overload the motor.
- For your own safety, use a vise or screw clamp to secure small workpieces.

8. Accessories

8.1. Accessories (Fig. 7/Fig. 1; Item 2-3)
1 Grinding wheel
2 Grinding belt (small)
3 Grinding belt (large)

8.2. Accessories (Fig. 8/Fig. 1; Item 12)
1 Cutting wheel (large)
2 Cutting wheel (small)

8.3. Accessories (Fig. 9/Fig. 1; Item 11)
1 Diamond-tipped cutter (cylindrical, large)
2 Diamond-tipped cutter (cylindrical, small)
3 Diamond-tipped cutter (pointed)
4 Diamond-tipped cutter (ball-shaped)

8.4. Accessories (Fig. 10/Fig. 1; Item 10)
1 Grinding wheel
2 Felt polishing wheel
3 Emery wheel
4 Fabric polishing wheel
5 Polishing paste

8.5. Accessories (Fig. 11/Fig. 1; Item 9)
1-5 Grinding pins

8.6. Accessories (Fig. 12/Fig. 1; Item 4)
1 Diamond cutting wheel
2 Clamping spindle for diamond cutting wheel
3 Grinding head for grinding belts (small)
4 Grinding head for grinding belts (large)
5 Flap wheel

8.7. Accessories (Fig. 13/Fig. 1; Item 5)
1 Sleeve
2 Cutter
3 Diamond-tipped cutter (ball-shaped)

8.8. Accessories (Fig. 14/Fig. 1; Item 6)
1 Arbor for felt wheels
2 Arbor for grinding wheels
3 Felt polishing wheel
4 Felt polishing wheel
5 Grinding wheel

8.9. Accessories (Fig. 15/Fig. 1; Item 7)
1 Wire brush
2 Wire brush
3 Bristle brush
4 Wire brush
5 Whetstone
6 Collet chuck
7 HSS bits
8 Bristle brush

8.10. Description of the accessories:

Cutting disks:
For cutting metal and plastic.
Insert the cutting wheel onto the clamping spindle.

Grinding pins:
In various grinding head shapes.
For grinding and deburring metal and plastic.

HSS bits:
For drilling work on non-ferrous metals, wood, plastic and printed circuit-boards.

Grinding wheels:
For cleaning and sharpening blades and tools. Insert the grinding wheel onto the clamping spindle.

Grinding paper:
For grinding and deburring wood and plastic.

Polishing wheels/polishing pins/emery wheels:
For polishing brass, tin, copper, etc. Also for use with polishing pastes.

Whetstone:
For sharpening tools.

Wire brushes:
For cleaning stone, metal, aluminium, etc.

Grinding belts:
For grinding wood and plastic.

Diamond-tipped cutters:
For cutting and engraving ceramic, glass and other hard materials.

Diamond cutting wheel:
For cutting, separating, grinding and deburring materials, such as concrete, stone, china, ceramic, etc.

Flap wheel:
For grinding metal, wood and plastic. For straight surfaces and contoured surfaces.

Sleeves:
Various sizes for mounting different accessory tools.

Cutters:
For cutting plastic, wood and soft metal.

Bristle brushes:
For cleaning and polishing metal surfaces (i.e. cutlery, jewelry, etc.) Also for use with polishing pastes.

Collet chuck key:
For mounting accessory tools.

9. Cleaning, maintenance and ordering of spare parts

Always pull out the mains power plug before starting any cleaning work.

9.1 Cleaning
- Keep all safety devices, air vents and the motor housing free of dirt and dust as far as possible.
- Wipe the equipment with a clean cloth or blow it with compressed air at low pressure. (Ensure the air is always directed away from you, and not towards another person or animal.)
- We recommend that you clean the device immediately each time you have finished using it.
- Clean the equipment regularly with a moist cloth and some soft soap. Do not use cleaning agents or solvents; these could attack the plastic parts of the equipment. Ensure that no water can seep into the device.

9.2 Carbon brushes
- In case of excessive sparking, have the carbon brushes checked only by a qualified electrician. Important! The carbon brushes should not be rep laced by anyone but a qualified electrician.

9.3 Maintenance
- There are no parts inside the equipment which require additional maintenance.

9.4 Ordering replacement parts:
Please quote the following data when ordering replacement parts:
- Type of machine
- Article number of the machine
- Identification number of the machine
- Replacement part number of the part required

For our latest prices and information please go to www.isc-gmbh.info

10. Disposal and recycling

The unit is supplied in packaging to prevent it being damaged in transit. This packaging is raw material and can therefore be reused or can be returned to the raw material system.

The unit and its accessories are made of various types of material, such as metal and plastic. Defective components must be disposed of as special waste. Ask your dealer or your local council.

Declaration of Conformity

ISC-GmbH · Eschenstraße 6 · D-94405 Landau/Isar

(D) erklärt folgende Konformität gemäß EU-Richtlinie und Normen für Artikel

(GB) declares conformity with the EU Directive and standards marked below for the article

(F) déclare la conformité suivante selon la directive CE et les normes concernant l'article

(NL) verklaart de volgende conformiteit in overeenstemming met de EU-richtlijn en normen voor het artikel

(E) declara la siguiente conformidad a tenor de la directiva y normas de la UE para el artículo

(P) declara a seguinte conformidade de acordo com a directiva CE e normas para o artigo

(S) förklarar följande överensstämmelse enl. EU-direktiv och standarder för artikeln

(FIN) ilmoittaa seuraavaa Euroopan unionin direktiivien ja normien mukaista yhdenmukaisuutta tuotteelle

(N) erklærer herved følgende samsvar med EU-direktiv og standarder for artikkel

(RUS) заявляет о соответствии товара следующим директивам и нормам ЕС

(HR) izjavljuje sljedeću uskladjenost s odredbama i normama EU za artikl.

(RO) declară următoarea conformitate cu linia directoare CE şi normele valabile pentru articolul.

(TR) ürün ile ilgili olarak AB Yönetmelikleri ve Normları gereğince aşağıdaki uygunluk açıkla masını sunar.

(GR) δηλώνει την ακόλουθη συμφωνία σύμφωνα με την Οδηγία ΕΕ και τα πρότυπο για το προϊόν

(I) dichiara la seguente conformità secondo la direttiva UE e le norme per l'articolo

(DK) attesterer følgende overensstemmelse i henhold til EU-direktiv og standarder for produkt

(CZ) prohlašuje následující shodu podle směrnice EU a norem pro výrobek.

(H) a következő konformitást jelenti ki a termékekre vonatkozó EU-irányvonalak és normák szerint

(SLO) pojasnjuje sledečo skladnost po smernici EU in normah za artikel.

(PL) deklaruje zgodność wymienionego poniżej artykułu z następującymi normami na podstawie dyrektywy WE.

(SK) vydáva nasledujúce prehlásenie o zhode podľa smernice EÚ a noriem pre výrobok.

(BG) декларира следното съответствие съгласно директивите и нормите на ЕС за продукта.

(UKR) заявляє про відповідність згідно з Директивою ЄС та стандартами, чинними для даного товару

(EE) deklareerib vastavuse järgnevatele EL direktiivi dele ja normidele

(LT) deklaruoja atitikti pagal ES direktyvas ir normas straipsniui

(RS) izjavljuje sledeçi konformitet u skladu s odred bom EZ i normama za artikl

(LV) Atbilstības sertifikāts apliecina zemāk minēto preču atbilstību ES direktīvām un standartiem

(IS) Samræmisyfirlýsing staðfestir eftirfarandi samræmi samkvæmt reglum Evfrópubandalagsins og stöðlum fyrir vörur

CXMT 135 Multi Tool

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[X]	2006/95/EG	[ ]	R&TTED 1999/5/EG
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[ ]	90/396/EWG	[ ]	97/68/EG:
[ ]	89/686/EWG		

EN 50144-1; EN 55014-1; EN 55014-2; EN 61000-3-2; EN 61000-3-3

Landau/Isar, den 23.08.2007

Weichselgartner
General-Manager

Mayr
Product-Management

Art.-Nr.: 44.191.79 I.-Nr.: 01018

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Subject to change without notice

CXMT 135 User Guide 18/9/08 12:12 pm Page 12

CXMT 135 User Guide 18/9/08 12:12 pm Page 1